CONTENTS

(Abstracts/Contents Lists published in Analytical Abstracts, ASCA, Biochemical Abstracts, Biological Abstracts, Chemical Abstracts, Chemical Titles, Chromatography Abstracts, Current Contents/Life Sciences, Current Contents/Physical, Chemical & Earth Sciences, Deep-Sea Research/Part B: Oceanographic Literature Review, Excerpta Medica, Index Medicus, Mass Spectrometry Bulletin, PASCAL-CNRS, Referativnyi Zhurnal and Science Citation Index)

Theoretical study of the effect of a difference in column saturation capacities for the two components of a binary mixture on their elution band profiles and separation in non-linear chromatography
by M. Z. El Fallah, S. Golshan-Shirazi and G. Guiochon (Knoxville and Oak Ridge, TN, U.S.A.) (Received December 14th, 1989) 1

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration
by J. K. Strasters, E. D. Breyer, A. H. Rodgers and M. G. Khaledi (Raleigh, NC, U.S.A.) (Received February 20th, 1990) 17

Important parameters in liquid chromatography–continuous-flow fast atom bombardment mass spectrometry
by P. Kokkonen (Zeist and Leiden, The Netherlands), E. Schröder (Bremen, F.R.G.), W. M. A. Niessen and U. R. Tjaden (Leiden, The Netherlands) and J. van der Greef (Zeist and Leiden, The Netherlands) (Received February 26th, 1990) 35

Theoretical aspects of the chromatographic analysis of heterogeneous polymers
by L. Z. Vilenchik (Indianapolis, IN, U.S.A.) (Received March 2nd, 1990) 49

Separation of simple ions by gel chromatography. I. Simple model of separation for single-salt systems
by T. Fukuda, N. Kohara, Y. Onogi and H. Inagaki (Kyoto, Japan) (Received January 15th, 1990) 59

Glucose-silica, an improved medium for high-pressure gel filtration chromatography
by H. G. Lee and H. W. Jarrett (Memphis, TN, U.S.A.) (Received March 13th, 1990) . . 69

Preparation and comparison of a pentafluorophenyl stationary phase for reversed-phase liquid chromatography
by E. Csató, N. Fülöp and G. Szabó (Budapest, Hungary) (Received March 5th, 1990) . . 79

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds
by T. Miwa, H. Kuroda and S. Sakashita (Gifu, Japan) and N. Asakawa and Y. Miyake (Ibaragi, Japan) (Received February 20th, 1990) 89

Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases
by L. Miller and C. Weyker (Skokie, IL, U.S.A.) (Received February 9th, 1990) 97

Direct separation and optimization of timolol enantiomers on a cellulose tris-3,5-dimethylphenylcarbamate high-performance liquid chromatographic chiral stationary phase
by H. Y. Aboul-Enein and M. R. Islam (Riyadh, Saudi Arabia) (Received February 13th, 1990) 109

Ligand-exchange chromatography of α-trifluoromethyl-α-amino acids on chiral sorbents
by S. V. Galushko, I. P. Shishkina, V. A. Soloshonok and V. P. Kukhar (Kiev, U.S.S.R.) (Received February 23rd, 1990) 115

(Continued overleaf)

Isocratic hydrophobic interaction chromatography of dansyl amino acids. Correlation of hydrophobicity and retention parameters
by J. Gehas and D. B. Wetlaufer (Newark, DE, U.S.A.) (Received February 27th, 1990) . 123

Simultaneous high-performance liquid chromatographic determination of amino acids in a dried blood spot as a neonatal screening test
by F. Moretti, M. Birarelli, C. Carducci, A. Pontecorvi and I. Antonozzi (Rome, Italy) (Received February 2nd, 1990) 131

Bioanalysis of the peptide des-enkephalin-γ-endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation
by D. S. Stegehuis, U. R. Tjaden and J. van der Greef (Leiden, The Netherlands) (Received December 18th, 1989) 137

Separation of human apolipoproteins A-IV, A-I and E by reversed-phase high-performance liquid chromatography on a TSK Phenyl-5PW column
by T. Tetaz and E. Kecorius (Melbourne, Australia), B. Grego (Burwood, Australia) and N. Fidge (Melbourne, Australia) (Received March 5th, 1990) 147

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection
by P. J. M. Kwakman, H. Koelewijn, I. Kool, U. A. Th. Brinkman and G. J. de Jong (Amsterdam, The Netherlands) (Received January 30th, 1990) 155

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination
by C. Lucarelli, P. Betto, G. Ricciarello and M. Giambenedetti (Rome, Italy), C. Corradini (Monterotondo Stazione, Italy), F. Stocchi (Rome, Italy) and F. Belliardo (Turin, Italy) (Received February 1st, 1990) 167

High-performance liquid chromatographic method for the determination of dansyl-polyamines
by S. C. Minocha, R. Minocha and C. A. Robie (Durham, NH, U.S.A.) (Received March 2nd, 1990) 177

Determination of 4,4′-methylenedianiline in hydrolysed human urine using liquid chromatography with UV detection and peak identification by absorbance ratio
by A. Tiljander and G. Skarping (Lund, Sweden) (Received February 19th, 1990) 185

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection
by R. R. M. Paterson (Kew, U.K.) and C. Kemmelmeier (Maringa, Brazil) (Received March 19th, 1990) 195

Ion chromatographic determination of plasma oxalate in healthy subjects, in patients with chronic renal failure and in cases of hyperoxaluric syndromes
by M. Petrarulo, O. Bianco, M. Marangella, S. Pellegrino, F. Linari and E. Mentasti (Turin, Italy) (Received February 22nd, 1990) 223

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations
by J. E. Parkin (Bentley, Australia) (Received March 5th, 1990) 233

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water
by E. A. Hogendoorn, A. P. J. M. de Jong and P. van Zoonen (Bilthoven, The Netherlands) and U. A. Th. Brinkman (Amsterdam, The Netherlands) (Received January 24th, 1990) . 243

Packed-column supercritical fluid chromatography–mass spectrometry and supercritical fluid chromatography–tandem mass spectrometry with ionization at atmospheric pressure
by E. Huang and J. Henion (Ithaca, NY, U.S.A.) and T. R. Covey (Thornhill, Canada) (Received December 12th, 1989) 257

(Continued overleaf)

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect
by P. J. Apps (Pretoria, South Africa) (Received March 13th, 1990) 271

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator
by K. P. Naikwadi and F. W. Karasek (Waterloo, Canada) and H. Hatano (Kyoto, Japan) (Received December 14th, 1989) 281

Identification of exposure markers in smokers' breath
by S. M. Gordon (Chicago, IL, U.S.A.) (Received December 14th, 1989) 291

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization
by O. Gyllenhaal, L. Grönberg and J. Vessman (Mölndal, Sweden) (Received November 24th, 1990) 303

Trace determination of lower volatile fatty acids in sediments by gas chromatography with chemically bonded FFAP columns
by C. A. Hordijk, I. Burgers, G. J. M. Phylipsen and T. E. Cappenberg (Nieuwersluis, The Netherlands) (Received March 5th, 1990) 317

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers
by J. Szymanowski (Poznań, Poland) and P. Kusz and E. Dziwiński (Kędzierzyn-Koźle, Poland) (Received December 1st, 1989) 325

Electric properties of photoaffinity-labelled pancreatic A-subtype cholecystokinin
by J. Jiménez, M. Dufresne, S. Poirot, N. Vaysse and D. Fourmy (Toulouse, France) (Received February 6th, 1990) 333

Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins
by P. J. Treado, L. M. Briggs and M. D. Morris (Ann Arbor, MI, U.S.A.) (Received March 22nd, 1990) 341

Notes

Normal-phase chromatography and post-column colorimetric detection of abamectin-8,9-oxide
by R. J. Demchak, J. G. MacConnell (Three Bridges, NJ, U.S.A.) (Received March 9th, 1990) 353

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard
by N. Bilic and R. Sieber (Liebefeld-Berne, Switzerland) (Received February 12th, 1990) . 359

Determination of 10-camphorsulphonates in pharmaceutical formulations by high-performance liquid chromatography
by C. Pierron, J. M. Panas, M. F. Etcheverry and G. Ledouble (Reims, France) (Received February 23rd, 1990) 367

Chromatographic evaluation of boldine and associated alkaloids in Boldo
by T. J. Betts (Perth, Australia) (Received January 8th, 1990) 373

Comparison of the EASI-EXTRACT immunoaffinity concentration procedure with the AOAC CB method for the extraction and quantitation of aflatoxin B_1 in raw ground unskinned peanuts
by M. Carvajal, F. Mulholland and R. C. Carner (Heslington, U.K.) (Received March 13th, 1990) 379

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst
by S. R. Kanhere and P. M. Scott (Ottawa, Canada) (Received March 27th, 1990) . . . 384

Poly(styrene–dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography
by P. Zhu, M. Ye, L. Shi, H. Liu and R. Fu (Beijing, China) (Received February 19th, 1990) 390

(Continued overleaf)

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds
by E. Menziani, B. Tosi, A. Bonora, P. Reschiglian and G. Lodi (Ferrara, Italy) (Received January 18th, 1990) 396

Letters to the Editor

Influence of pressure on the maximum production rate in preparative liquid chromatography
by S. Golshan-Shirazi and G. Guiochon (Knoxville and Oak Ridge, TN, U.S.A.) (Received February 7th, 1990) 402

Influence of pressure on the maximum production rate in preparative liquid chromatography. Reply to the letter of S. Golshan-Shirazi and G. Guiochon
by L. R. Snyder (Lafayette, CA, U.S.A.) and G. B. Cox (Indianapolis, IN, U.S.A.) (Received March 21st, 1990) 404

Author Index 407

Erratum 410

In articles with more than one author, the name of the author to whom correspondence should be addressed is indicated in the article heading by a 6-pointed asterisk (*)